

IN THE DISCLOSURE

Please replace the table at page 3, lines 1-6 with the following:

Table 2.
LOCATION OF DISULFIDE LOOP IN STAPHYLOCOCCUS ENTEROTOXINS

| ENTEROTOXIN | AMINO ACID RESIDUES | AMINO ACID SEQUENCE OF DISULFIDE LOOP |
|--------------|---------------------------|---|
| SEA | 96-106 | 96?CAGGTPNKTAC (SEQ. ID. NO:9) |
| SEB | 93-114 | 93?CYFSKKTNDINSHQTPKRKTC (SEQ. ID. NO:10) |
| SEC1 | 93-110 | 93?CYFSSKDNVGKVTGGKTC (SEQ. ID. NO:11) |
| SEC2 | 93-110 | 93?CYFSSKDNVGKVTGGKTC (SEQ. ID. NO:12) |
| SEC3 FRI 913 | 93-110 | 93?CYFSSKDNVGKVTGGKTC (SEQ. ID. NO:13) |
| SEC3 FRI 909 | 93-110 | 93?CYFSSKDNVGKVTSGKTC (SEQ. ID. NO:14) |
| SEC 4446 | 93-110 | 93?CYFSSKDNVGKVTGGKTC (SEQ. ID. NO:15) |
| SEC-Bovine | 93-110 | 93?CYFSSKDNVGKVTGGKTC (SEQ. ID. NO:16) |
| SEC-Ovine | 93-110 | 93?CCFSSKDNVGKVTGGKTC (SEQ. ID. NO:17) |

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Please replace the table at page 17 with the following table:

Table 1.
Amino Acid Sequence of Selected Staphylococcal Enterotoxins

[illegible]

Please replace the table at page 18 with the following table:

Table 3A.

Conserved Regions of Enterotoxin Molecules*

| Region 1 | | Region 3 | |
|----------|-----------|------------|-------------------------------------|
| Toxin | Residue # | Toxin | Residue # |
| SEA | 79 | SEA | 147 |
| SEB | 76 | SEB | 152 |
| SEC1 | 76 | SEC1 | 151 |
| SEC2 | 76 | SEC2 | 151 |
| SEC3 | 76 | SEC3 | 151 |
| SED | 74 | SED | 142 |
| SEE | 76 | SEE | 144 |
| SPEA | 70 | SPEA | 137 |
| SPEC | 63 | SPEC | 124 |
| TSST-I | 56 | TSST-I | 121 |
| | | TSST-I 129 | |
| | | | KKNTVQELDLQARRYL (SEQ. ID. NO:28) |
| | | | KKKVT AQELDYLTRHYL (SEQ. ID. NO:29) |
| | | | KKSVTAQELDIKARNFL (SEQ. ID. NO:30) |
| | | | KKSVTAQELDIKARNFL (SEQ. ID. NO:31) |
| | | | KKSVTAQELDIKARNFL (SEQ. ID. NO:32) |
| | | | KKNTVQELDAQARRYL (SEQ. ID. NO:33) |
| | | | KEVTVQELDLQARHYL (SEQ. ID. NO:34) |
| | | | KKMVT AQELDYKVRKYL (SEQ. ID. NO:35) |
| | | | KDIVTFQEIDFKIRKYL (SEQ. ID. NO:36) |
| | | | KK----Q-L-I (SEQ. ID. NO:37) |
| | | | LD FEIRHQL (SEQ. ID. NO:38) |

* From Hoffmann et al., *Infect Immunol* 62:3396 (1994).

Please replace the table at page 19 with the following table:

Table 3B.

Conserved Regions of Enterotoxin Molecules (Cont.)*

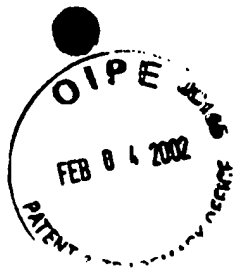
| Toxin | Residue # | Region 2 | | Toxin | Residue # | Region 4 | |
|--------|-----------|----------|-------------------------------|--------|-----------|----------|---------------------------------|
| | | | | | | | |
| SEA | 106 | C | MYGGVILHDNN (SEQ. ID. NO:39) | SEA | 209 | L | LRIYRDNKTINSE (SEQ. ID. NO:49) |
| SEB | 113 | C | MYGGVTEHNGN (SEQ. ID. NO:40) | SEB | 213 | Y | LMMYNDNKMVDSK (SEQ. ID. NO:50) |
| SEC1 | 110 | C | MYGGITKHEGN (SEQ. ID. NO:41) | SEC1 | 213 | Y | LMMYNDNKTVDSEK (SEQ. ID. NO:51) |
| SEC2 | 110 | C | MYGGITKHEGN (SEQ. ID. NO:42) | SEC2 | 213 | Y | LMMYNDNKTVDSEK (SEQ. ID. NO:52) |
| SEC3 | 110 | C | MYGGITKHEGN (SEQ. ID. NO:43) | SEC3 | 213 | Y | LMYKDNKMVDSK (SEQ. ID. NO:53) |
| SED | 101 | C | TYGGVTPHEGN (SEQ. ID. NO:44) | SED | 204 | Q | LRIYSDNKTLSSE (SEQ. ID. NO:54) |
| SEE | 103 | C | MYGGVTNHDNN (SEQ. ID. NO:45) | SEE | 206 | L | LRIYRDNKTINSE (SEQ. ID. NO:55) |
| SPEA | 98 | C | YIYGGVTNHEGN (SEQ. ID. NO:46) | SPEA | 197 | Y | LMYKDMETLDSN (SEQ. ID. NO:56) |
| SPEC | 85 | Y | IYGGITPAQNN (SEQ. ID. NO:47) | SPEC | 184 | I | FAKYKDNRIINMK (SEQ. ID. NO:57) |
| TSST-I | 83 | F | QISGVTNTEKL (SEQ. ID. NO:48) | TSST-I | 179 | P | PNIDEIKTIEAE (SEQ. ID. NO:58) |

* From Hoffmann et al., *Infect Immunol* 62:3396 (1994).

Please replace the table at page 20 with the following table:

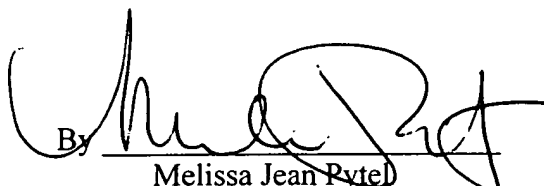
TABLE 4.
SEC1 LOOP MUTANTS

| AMINO ACID # | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 |
|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
| SEC1 (wild type) AMINO ACID NUCLEIC ACID | Cys TGC | Tyr TAT | Phe TTT | Ser TCA | Ser TCC | Lys AAA | Asp GAT | Asn AAT | Val GTA | Gly GGT | Lys AAA | Val GTT | Thr ACA | Gly GGT | Gly GGC | Lys AAA | Thr ACT | Cys (SEQ. ID. NO:60) TGT (SEQ. ID. NO:59) |
| SEC1 Loop Deletion Mutants | | | | | | | 301 | - | 306 | | | | | | | | | |
| -4 A.A. MUTANT | Cys TGC | Tyr TAT | Phe TTT | Ser TCA | Ser TCC | Lys AAA | Asp GAT | Asn AAT | Ala GCA | | | | | Gly GGT | Gly GGC | Lys AAA | Thr ACT | Cys (SEQ. ID. NO:62) TGT (SEQ. ID. NO:61) |
| -9 A.A. MUTANT | Cys TGC | Tyr TAT | Phe TTT | Ser TCA | Ser TCC | Lys AAA | | | | | | | | | Gly GGC | Lys AAA | Thr ACT | Cys (SEQ. ID. NO:64) TGT (SEQ. ID. NO:63) |
| -12 A.A. MUTANT | Cys TGC | Cys T-- | | | | | | | | | | | | GT | Gly GGC | Lys AAA | Thr ACT | Cys (SEQ. ID. NO:66) TGT (SEQ. ID. NO:65) |



Respectfully submitted,

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